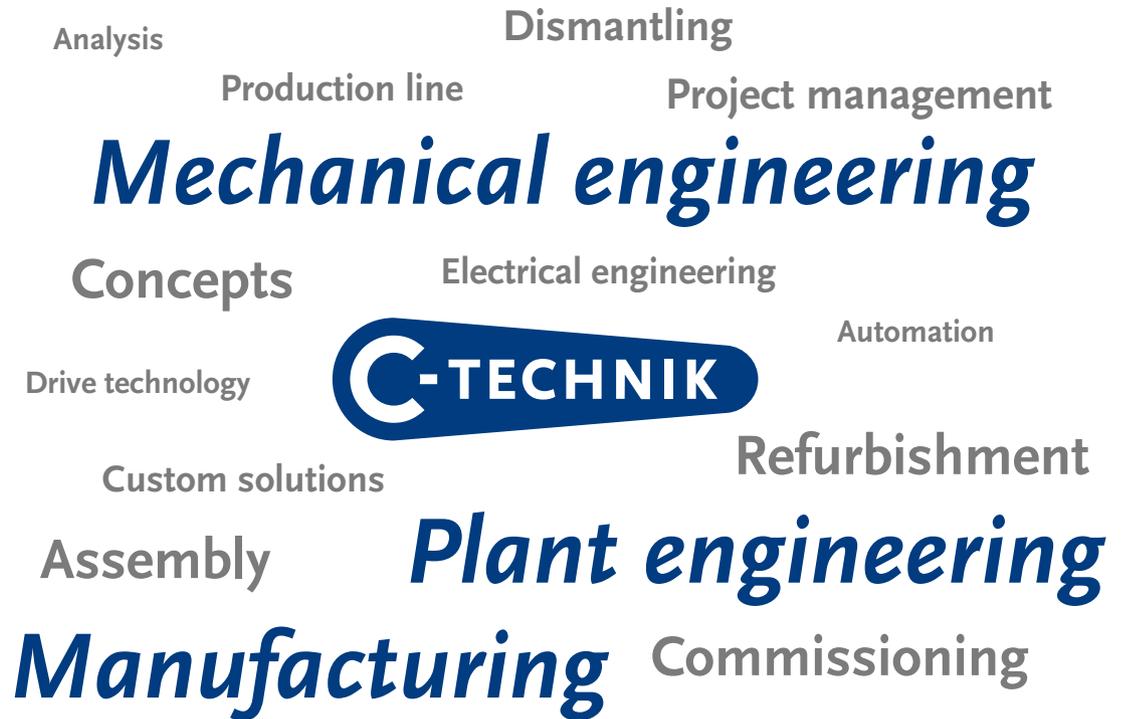




*Cold Rolling Mills • Processing Lines • Finishing Lines*





From the first contact to the concrete contract and delivery of a complete turnkey plant: The C-Technik (CT) stands for a customized all-around service in mechanical engineering and special mechanical engineering.

We design, manufacture and assemble units for the strip steel and the rolling mill industry as well as special machinery for the mechanical engineering. Furthermore we modify and refurbish existing production lines.

Our services include engineering, detailed design and manufacturing as well as the assembly, disassembly, repair work and commissioning. Our sophisticated project management completes our portfolio.

Primary goals of our work are punctuality, a solid cooperation with the customer and a high degree of flexibility.

***That's the way we achieve success – together!***

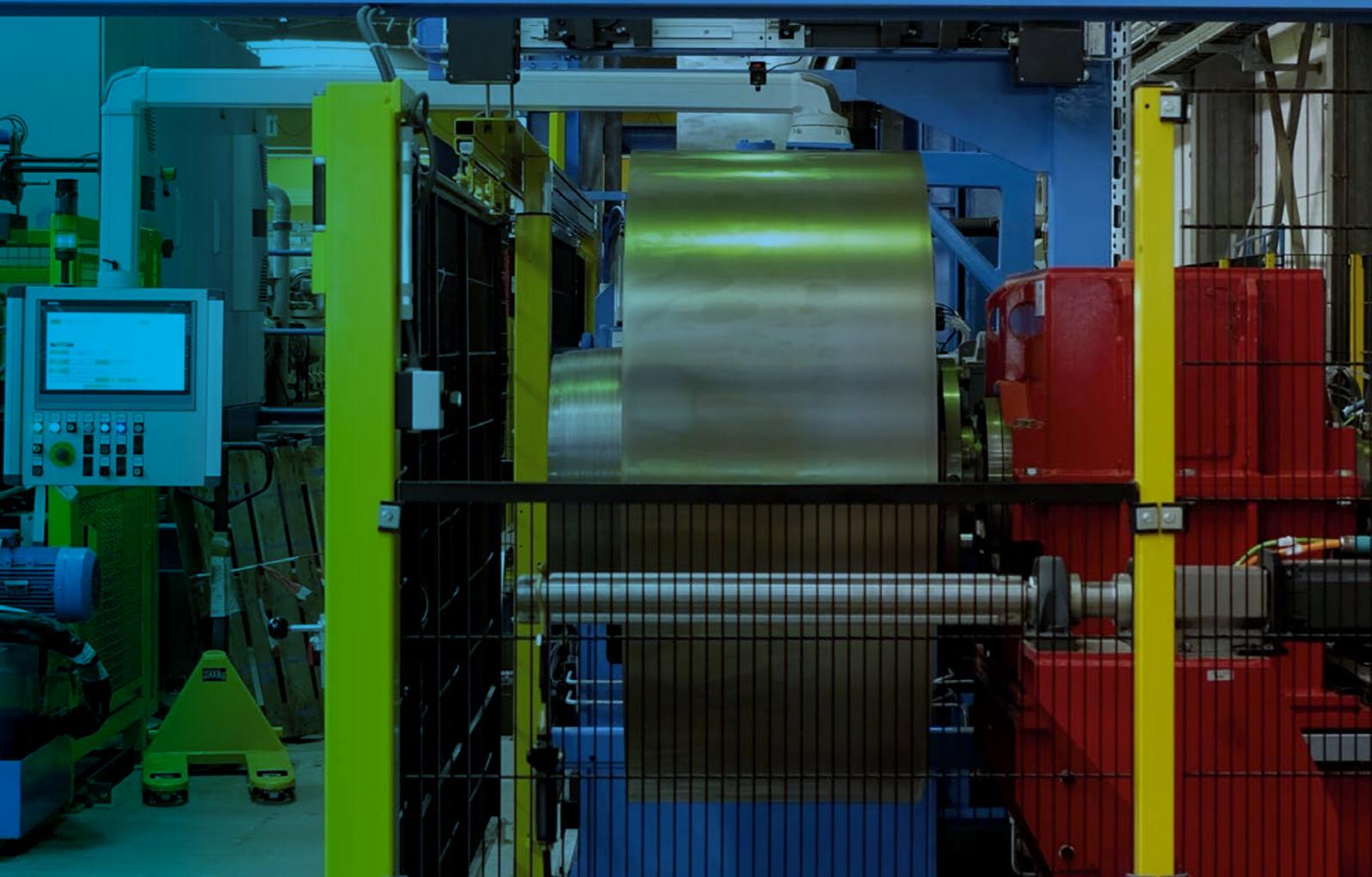
## *No project too big – and no order too small.*



The C-Technik, located in Willich near Düsseldorf, gives a perfect example for punctuality, partnership with the customer, adaptability and fast response time even in cases of unusual and extensive requirements.

The CT's strong customer focus is a fundamental element of all project phases – beginning with project planning, handling and monitoring through rough and detail engineering to the manufacturing, assembly and finally the commissioning.

***Anything is possible!***



# From analysis to acceptance.

1

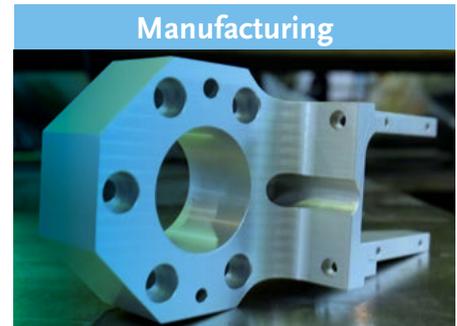
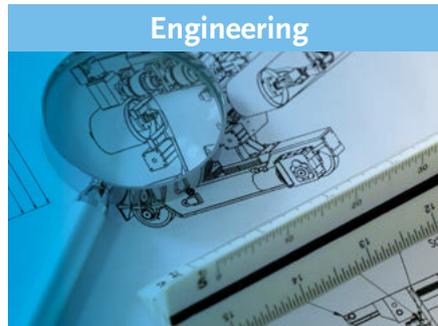


2



3

Concept					
Nr.	Vorgangsname	Dauer	Anfang	Ende	Vorgang
1	✓ Projektplan	133 Tage?	Fr 18.12.14	Fr 01.06.16	
2	✓ Einkauf Zukauf	21 Tage?	Fr 02.01.15	Do 22.01.15	
3	✓ Fertigung Maschinenbau	72 Tage?	Fr 19.12.14	Sa 28.02.15	
4	✓ Fertigung Stahlbau	36 Tage?	Mo 26.01.15	Mo 02.03.15	
5	✓ Lieferbereitschaft	1 Tag?	Fr 06.03.15	Fr 06.03.15	
6	✓ Anlieferung der Stahleinbauteile	2 Tage?	Do 12.03.15	Fr 13.03.15	
7	✓ Demontage 1	3 Tage?	Do 05.03.15	Sa 07.03.15	
8	✓ Demontage 2	5 Tage?	Sa 07.03.15	Mi 11.03.15	
9	✓ Montage Fundamentträger gesamt	47 Tage?	So 15.03.15	Fr 01.05.15	
10	✓ Montage Träger BG9.3	2 Tage?	So 15.03.15	Mo 16.03.15	
11	✓ Montage Mechanik BG9.5	9 Tage?	Do 26.03.15	Fr 03.04.15 10	
12	✓ Montage Träger BG 9.4	2 Tage?	Di 17.03.15	Mi 18.03.15 10	
13	✓ Montage Mechanik BG9.4	4 Tage?	Fr 03.04.15	Mo 06.04.15 12	
14	✓ Montage Träger BG9.1+9.2	2 Tage?	So 29.03.15	Mo 30.03.15	
15	✓ Montage Mechanik BG 9.1+9.2	4 Tage?	Fr 03.04.15	Mo 06.04.15 14	
16	✓ Montage Träger BG17.2	2 Tage?	Di 17.03.15	Mi 18.03.15	
17	✓ Montage Mechanik BG17.2	7 Tage?	Mi 01.04.15	Di 07.04.15	
18	✓ Montage Träger BG9.1	7 Tage?	Di 07.04.15	Mo 13.04.15	
19	✓ Montage Träger BG9.5 offen	0 Tage	Fr 01.05.15	Fr 01.05.15	
20	✓ Montage Mechanik BG 9.5 offen	0 Tage	Fr 01.05.15	Fr 01.05.15	



Every customer request is unique. Therefore our partners do not get offers off the rack but a service individually tailored to their tasks and circumstances.

- Analysis of the requirements
- Design of a layout
- Analysis of interfaces and potential risks
- Pre-planning of the project

On the basis of detailed specifications or specific requirements our designers and engineers create detailed models in 3D technology. The newest hard- and software such as the AutoCAD software Inventor enables us to create up-to-date computer-aided design.

- Elaboration of concepts
- Layout of plants
- Simulations based on models
- Cycle time analysis
- Analytical and FEM calculation
- 2D drawings and 3D models
- Technical documentation
  - Description of plants
  - Operation and maintenance manuals
  - CE documentation
  - Risk analysis and assessment

Precisely and in time manufactured components form the core of each project: the assembly/plant itself. For achieving this, CT manufactures on conventional and state-of-the-art CNC machines.

- Manufacturing of single components and component groups, based on customer drawings
- Mechanical processing, even in large dimensions
- Welded and steel constructions – WHG and EN 1090 certified
- Construction of foundations, platforms and restricted areas
- Spare parts, components

4



5



6

### Refurbishment



You refurbish your production line or another section of your factory? We disassemble the respective plant, refurbish functional parts that remain in the plant and take care of the disposal.

- Disassembly
- Refurbishment and processing of functional parts
- Disposal of steel waste

### Assembly



When refurbishment and repair works for big production lines are in progress, things tend to get stressful. Every minute of downtime is expensive; very expensive. Therefore you need to trust your partners 100%. CT combines the experience of many successful projects handled over many years. Experienced project managers, foreworkers and assemblers are the reason for a quick assembly, so your plant is productive as soon as possible.

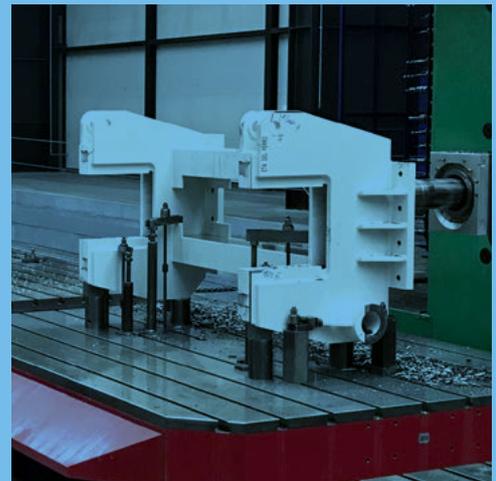
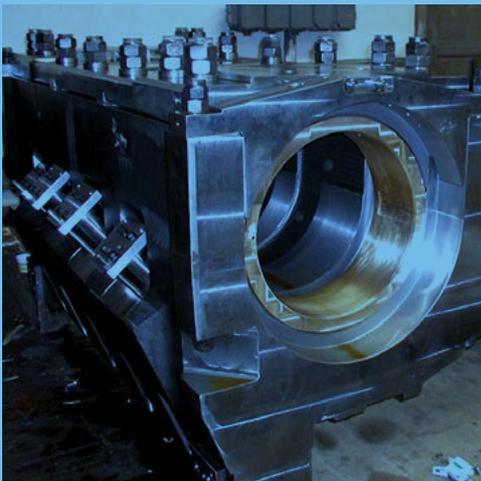
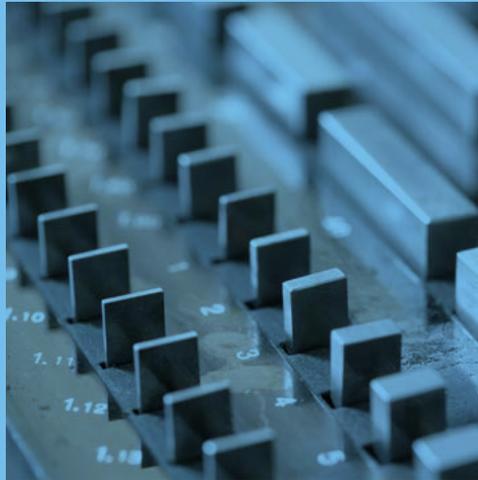
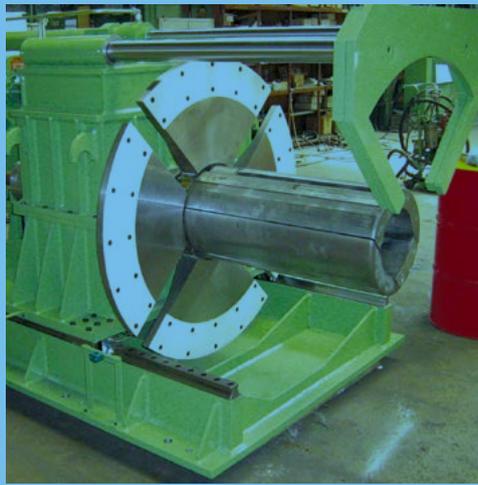
- Pre-assembly of installations with components manufactured by us as well as norm and purchase items acquired through us (gears, bearings, etc.)
- Assembly of new plants
- Integration of assemblies in existing plants
- Installation and integration of necessary control and automation technology

### Commissioning



To ensure a frictionless start of your new plant, C-Technik supports you through the assembly until the point of normal operation.

- Support in commissioning
- Test runs
- Adjustments
- Handover



## *Openness and transparency lead to delivery on schedule and satisfaction.*

The CT's project management is characterized by close coordination between the partners during the entire project. Openness and transparency facilitate the achievement of deadlines and – ultimately – of satisfaction on all sides.

Another special feature: Also on site, during the installation and commissioning, we are always available at your disposal.

Our project management includes the monitoring of the individual project steps and of the project success in general, the documentation of the project status and of the burdens and obligations of all project partners and the control of all costs and deadlines with regard to the project monitoring.

### **Some examples of CT's projects are:**

- Strip coating lines
- Slitting lines
- Cut-to-length lines
- Rewinding lines
- Coilers
- Slitting shears
- a.m.m.

# *More than 20 years of experience are our added value. Also at spare and service parts.*

On the basis of detailed specifications or specific requirements our designers and engineers create detailed models in 3D technology. The newest hard- and software such as the Auto-CAD software Inventor enables us to create up-to-date computer-aided design.

The most important preparatory work is done in the engineering. This work includes the development of concepts, the layout of plants, simulations based on models, cycle time analyses, analytical and FEM calculations, 2D drawings and 3D models.

Another aspect belonging to the engineering is the technical documentation. This includes the description of the equipment, operation and maintenance manuals, CE documentation as well as risk analysis and risk assessment.

The manufacturing and assembly form the heart of every project and of the entire work of CT. We work with conventional as well as state-of-the-art CNC machines.

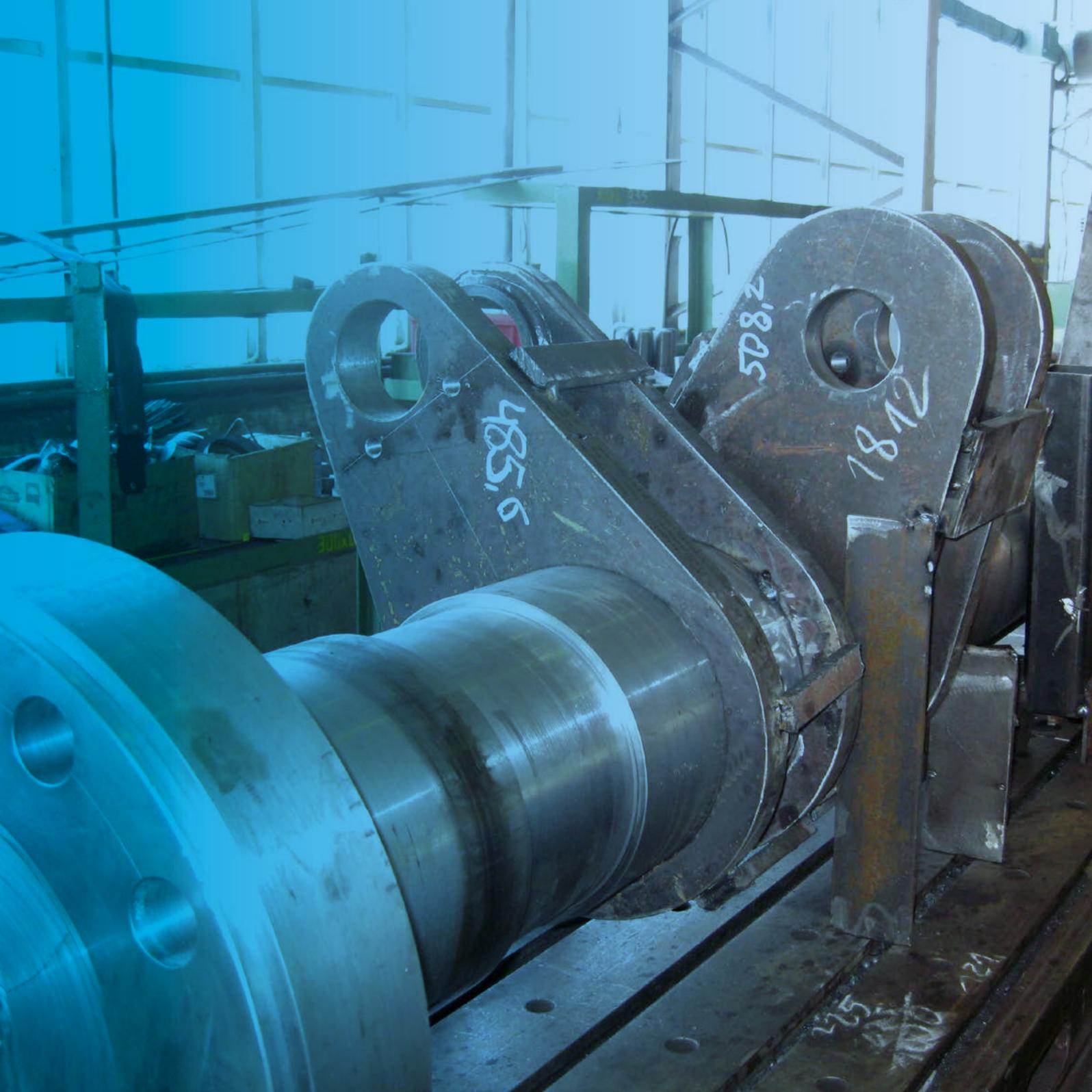
Especially at the manufacturing of single and spare parts three factors are decisive: timing, precision, and pricing. CT is characterized by fast order processing, high quality standards and favourable wages and conditions.

#### **Our services include:**

- Manufacturing of individual parts
- Manufacturing of small series
- Production of prototypes
- Welded constructions and steel work (WHG certified)
- Assembly and disassembly
- Integration of new installations in existing plants
- Commissioning

#### **Our manufacturing skills include:**

- Turning
- Vertical boring milling
- Milling
- Boring mill processing
- Grinding (inside, outside, flat)
- Drilling
- Welding
- Interlock
- Sandblasting
- Painting
- Coating
- Heat treatment
- Annealing
- Assembly

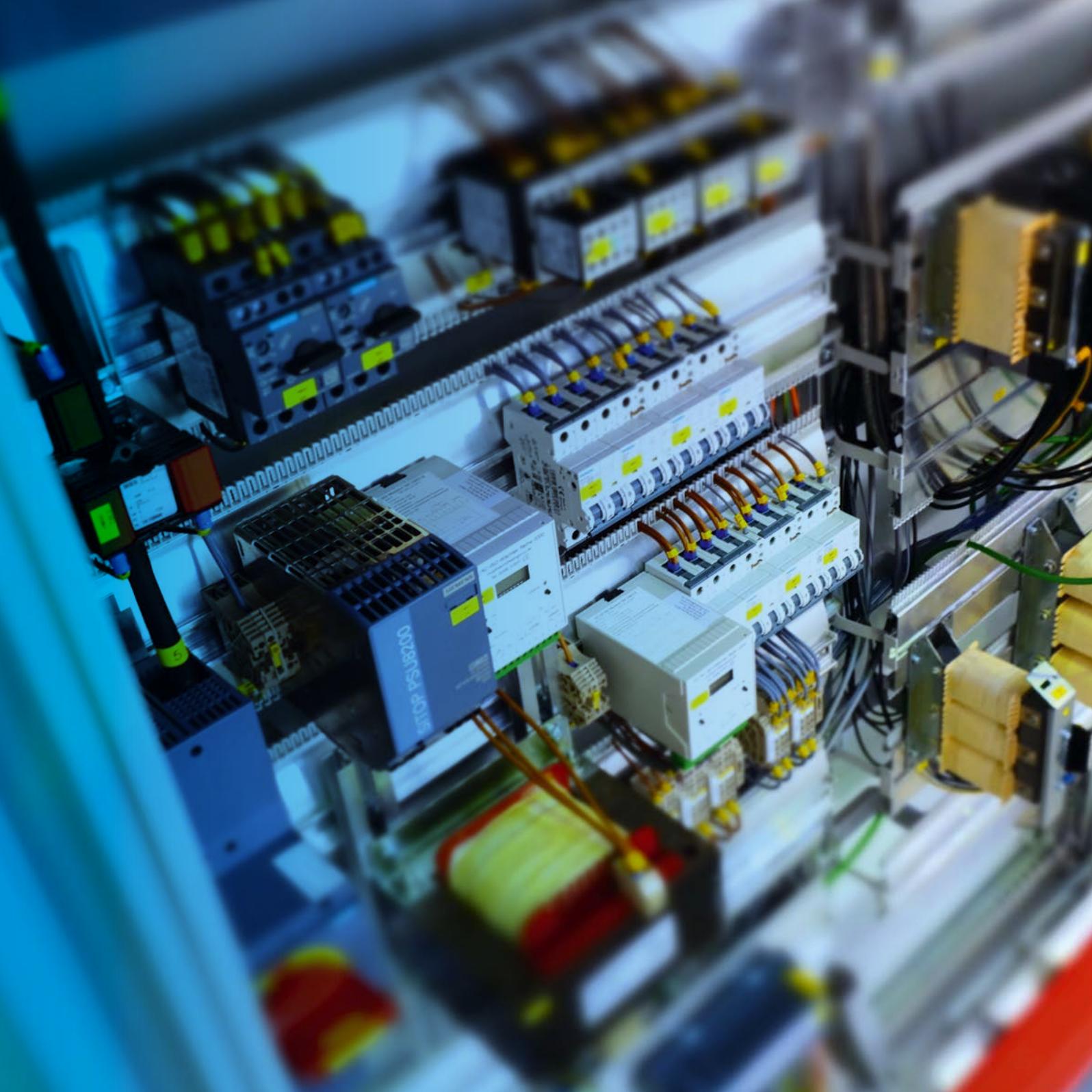


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***We have our own automation specialists – very well interlinked, for smooth operation and success.***

Due to the establishment of the IC<sup>e</sup> in spring 2016 the spectrum of the KICK company group – the CT is also a member of this group – increased by one important field. The core competencies of IC<sup>e</sup> are the project planning, software development and commissioning of production processes.

Disturbing interfaces during the project are eliminated by the gain in competence. Our cus-

tomers get an even more comprehensive, better coordinated service package.

Our services include the construction of the control and control cabinet, their installation and commissioning in new and existing systems as well as service activities and modifications. For the design and planning of the installations we use software solutions from Siemens, for the circuit diagrams we use EPLAN.



*Trust pays off.*

**You have questions – we have answers.**

Each new project is a new challenge. And we face these challenges with all our passion.

**Customers that trust in our expertise are among others:**

- Vallourec
- Outokumpu
- ThyssenKrupp
- Bandstahl Schulte
- voestalpine
- ArcelorMittal
- Benteler
- Thyssen
- Bilstein
- Signode
- Vogelsang
- Wieland
- a.m.m.



Mirko Krebs | Managing Director



Holger Krebs | Managing Director





Siemensring 54-56 · D-47877 Willich  
T +49(0)2154/89102-0 · F +49(0)2154/89102-286  
mail@ctechnik.de · www.ctechnik.de